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# U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE FOREST PRODUCTS LABORATORY MADISON, WIS.

In Cooperation with the University of Wisconsin

LIST OF PUBLICATIONS ON

# **WOOD PRESERVATION**

This list includes publications that give general information and the results of research by the Forest Products Laboratory on wood preservation.

Single copies of the various items may be obtained free upon request from the Director, Forest Products Laboratory, Forest Service, U.S. Department of Agriculture, P.O. Box 5130, Madison, WI 53705. Classroom quantities are not available because of limited printing and storage facilities.

Evaluation of fire-retardant treatments for wood shingles.

: Holmes, C.A.

: U.S. Forest Serv.

: Res. Paper FPL 158.

: 1971.

#### Decay and Durability

A need for modifying the soil-: Highley, T.L., & : Material und block method for testing natural : Scheffer, T.C. : Organismen 5(4): resistance to white rot? : 281-292, 1970. Decay resistance of four wood : Highley, T.L. : Phytopathology 60(11): : 1660-1661. Nov. 1970. species treated to destroy thiamine. Natural decay resistance of 30 : Highley, T. L., & : U.S. Forest Serv. Peruvian woods. : Scheffer, T.C. : Res. Paper FPL 143. : 1970. : U.S. Forest Serv. Comparative decay resistance : Forest Products of heartwood of native species. : Laboratory : Res. Note FPL-0153. : 1967. : Forest Products : U.S. Forest Serv. Factors influencing decay of untreated wood. : Res. Note FPL-0154. : Laboratory : 1967. Prevention and control of decay : FPL Tech. Note : No. 251. Reissued in dwellings. : 1962. : Amer. Soc. of Mech. Causes and prevention of decay : Baechler, R.H., of wood in cooling towers. : Blew, J.O., & : Eng. Pub. 61-PET-5, : Sept. 1961. : Duncan, C.G. : FPL Tech. Note Comparative decay resistance of: heartwood of different native : No. 229. Rev. 1961. species when used under conditions that favor decay. Decay resistance and dimensional: Stamm, A.J., & : Forest Prod. J. 10(1): : 22-26. Jan. 1960. stability of five modified woods. : Baechler, R.H.

71-022

Title		Author	:	Publication and date
Decay resistance of bald-cypress heartwood.  Protection from wood-destroying organisms (mold, stain, decay).	•	Campbell, R.N., & Clark, J.W.		Forest Prod. J. 10(5): 250-253. May 1960.  Separate from the Forest Products Laboratory's "Wood Handbook." USDA Handb. No. 72, Sup. of Doc., Washington, D. C. 20402. \$2.25.

#### HEAT CONDUCTION STUDIES

#### RELATING TO WOOD PRESERVATION

#### PRESER VATIVES

## Application Methods

Vacuum treatment of lumber.	: Blew, J.O., : Panek, E., & : Roth, H.G.	: Forest Prod. J. : 20(2): 40-47. : Feb. 1970. :
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Title		Publication and date
pressure-treated wood.	: Sachs, I.B.,	: Forest Prod. J. : 19(8): 31-40. : Aug. 1969.
Retention and distribution of waterborne preservative in red-wood treated at different moisture levels.	: Roth, H.G., &	AWPA Proc. 1968.
Preservative treatment of wood for farm use.		U.S. Forest Serv. Res. Note FPL-085.
Retention and distribution of creosote in redwood lumber treated at three levels of moisture content.	Blew, J.O., & Roth, H.G.	AWPA Proc. 1965.
	Blew, J.O., Roth, H.G., & Davidson, H.L.	AWPA Proc. 1965.
Some companies that design or build wood-preserving plants.	Forest Products Laboratory	FPL 65-025. 1965.
	& Roth, H.G.	Forest Prod. J. : 14(4): 171-178. : Apr. 1964.
Preservative treatment of fence posts and farm timbers.		U.S. Dept. Agr. Farm. Bull. 2049. Slightly revised 1956. Reprinted 1964.
How to treat fence posts by double diffusion.		U.S. Forest Serv. Res. Note FPL-013.

Title	Author	Publication and date
Preservative treatment of jack pine and longleaf pine posts by the hot-and-cold bath and its boiling-in-water-adaptation.	• d	FPL Rep. No. 2085. 1957. +1963.
The osmose preservatives and processes.	Forest Products Laboratory	FPL 63-015. 1963.
Tire-tube method of fence post treatment.	Wirka, R.M.	FPL Rep. No. 1158. Rev. 1962.
When preservative treatment of wood is an economy.		FPL Tech. Note No. 165. Rev. 1962.
Treatment of Hawaiian grown wood posts by the double-diffusion wood preservation process.	Baechler, R.H.	Pacific Southwest Forest Exp. Sta. Res. Note 187.
Oscillating pressure treatment of 10 U.S. woods.	: Henriksson, S.T.,	Forest Prod. J. 11(6): 275-282. June 1961.
Making log cabins endure.	Forest Products Laboratory	FPL Rep. No. 982. Rev. 1960.
Study of the preservative treat- ment of lumberA comparison of the results of treatment, by pres- sure and nonpressure processes, on end matched Douglas-fir and shortleaf pine lumber.		FPL Rep. No. 2043.
Preservative treatment of wood by pressure methods.	MacLean, J.D.	USDA Handb. 40.

<sup>+</sup> Information reviewed and reaffirmed.

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#### Evaluation of Properties

Wood minesweepers are sound : Highley, T.L., : Forest Prod. J. after 15 years of service. : Scheffer, T.C., &: 21(5): 46-48. : Selbo, M. L. : May 1971. Preservative retentions and : Blew, J.O., & : Amer. Wood Pres. penetration in the treatment of : Davidson, H. L. : Assoc. Proc. prewhite fir. : print, v. 66, 18 pp., : 1971. Quantitative differences in : AWPA Proc., 3 pp., : Gjovik, L.R., preservative penetration and : Roth, H.G., & : 1970. retention in summerwood and : Lorenz, L.F. springwood of longleaf pine. Assay zones for specifying : Baechler, R.H., : AWPA Proc., 8 pp., preservative-treated Douglas-fir : Gjovik, L.R., & : 1969. and southern pine timbers. : Roth, H.G. Comparison of wood preserva-: U.S. Forest Serv. : Blew, J.O., & tives in Mississippi post study : Davidson, H. L. : Res. Note FPL-01. (progress report). : 1969. Comparison of wood preserva-: U.S. Forest Serv. : Blew, J.O. tives in stake tests (progress : Res. Note FPL-02. : 1969. report). : AWPA Proc. 1968. Study of paintability and cleanli-: Panek, E. ness of wood pressure treated with water-repellent preservative. : Forest Prod. J. Long-term effect of preserva-: Selbo, M. L. : 17(5): 23-32. tives on gluelines in laminated beams. : May 1967.

Title	: Author :	Publication and date
Preservative retention and distribution in several western conifers.	: Roth, H.G., &	: AWPA Proc., : Vol. 63, 1967 pre- : print, 12 pp.
Relation between distillation pattern of creosote and its effectiveness as determined by the soil-block method.		AWPA Proc. 1965.
Effects of various preservative treatments of field boxes on nail holding.	:	U.S. Forest Serv. Res. Paper FPL 42.
Effects of wood preservatives on electrical moisture-meter readings.	: Laboratory	U.S. Forest Serv. Res. Note FPL-0106.
Results of soil-block tests on miscellaneous chemicals and materials.	·	AWPA Vol. 60: : 182-189. 1964.
Problems in production of clean treated wood.	· · · · · · · · · · · · · · · · · · ·	AWPA Vol. 60. Apr. 1964.
Service records on treated and untreated fence posts.	: Kulp, J.W.	U.S. Forest Serv. Res. Note FPL-068.
Present status of results-type specifications for treated wood.		: FPL Rep. No. 2260. : 1962.
A review of articles on methods for determining arsenic, boron, chlorine, fluorine, and zinc in various materials.		FPL Rep. No. 2234.
Studies on the assay of pressure- treated lumber.		: AWPA Vol. 58: : 21-33. 1962.

Title	: Author	: Publication and date
Effect of petroleum carrier on rate of loss of pentachlorophenol from treated stakes.		: Forest Prod. J. : 12(4): 187-190. : Apr. 1962.
Service tests on posts as a mean of evaluating wood preservatives and methods of treatment.		: FPL Rep. No. 1726. : 1948. + 1962.
Results of preservative treatmen of Douglas-fir from different areas.	t: Blew, J.O., Jr.	: AWPA Proc. 1961.
	Materials	
Partial list of suppliers of chemicals used in double-diffusion treatment of wood.  Wood preservation statistics.  Reported annually for the previous year.	: Forest Products : Laboratory :	: 70-004. Feb. 1970. : : : : Forest Service, : USDA in cooperation : with the AWPA : (Proc.)
Coal-tar creosote producers and dealers in the United States.		: WP-7. 1962.
Partial list of suppliers of pentachlorophenol wood preservatives.	: Forest Products : Laboratory	: WP-50. 1960.

<sup>+</sup> Information reviewed and reaffirmed.

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## PRODUCTS

# Crossties

Poles, piling, and ties.	<b>o</b>	: Separate from the
	6 6	: Forest Products
	* *	: Laboratory's "Wood
	<b>*</b>	: Handbook,'' USDA
		: Handb. No. 72, Sup.
	<b>o</b>	: of Doc., Washington,
	<b>•</b>	: D.C. 20402. \$2.25.
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# Lumber, Millwork, and Timbers

•		: Forest Prod. J. : 17(12): 21-29. : Dec. 1967.
	Blew, J.O., & Roth, H.G.	AWPA Proc. 1965.
Summary of information on gluing of treated wood.		FPL Rep. No. 1789. Rev. 1959. + 1965.
· ·	Blew, J.O., & Panek, E.	AWPA Vol. 60. 1964.

<sup>+</sup> Information reviewed and reaffirmed.

Title	: Author	: Publication and date
Ten-year exposure to laminated beams treated with oilborne and waterborne preservatives.	: Selbo, M.L.	: Forest Prod. J. : 14(11): 517-520. : Nov. 1964.
Treating wood by the cold soaking method.	: Blew, J.O.	: FPL Rep. No. 1445. : 1944. Reprinted 1963.
Prevention and control of decay in dwellings.		: FPL Tech. Note : No. 251. Reissued : 1962.
Effect of solvent on gluing of preservative treated red oaks, Douglas-fir, and southern pine.	: Selbo, M.L.	: AWPA Proc. 1961.

# Posts, Poles, and Piling

Utility pole decay. Pt. II: Basidiomycetes associated with decay in poles.	•	: Wood Science & : Technology, Vol. 4, : 1970, pp. 97-103.
Pole groundline preservative treatments evaluated.	0	Transmission & Distribution, Aug. 1970.
Studies of several methods for determining suitability of creosote for marine use.	: Gjovik, L.R., &	: AWPA Proc., 12 pp., : 1969.
Condition of pine piling submerged 62 years in river water.	·	Wood Preserving, pp. 22-24, Jan. 1969.

Title	Author	Publication and date
Further thoughts regarding variable performance of creosoted marine piling.	: Baechler, R.H.	: AWPA Proc. 1968.
	: Gaby, L.I., &	Forest Prod. J. : 17(12): 33-35. : Dec. 1967.
Determining preservative retention in piling by the assay of borings.	Baechler, R.H.	FPL Rep. No. 2172. 1959. + 1965.
Determination of residual creosote in disks from fender piling after 30 years' service in San Francisco-Oakland Bay bridge.	Baechler, R.H., & Alpen, R.M.	AWPA Proc. 1965.
Extraction of borings removed from fender piles in San Francisco-Oakland Bay bridge.		: AWPA Vol. 60: 32-37 : 1964.
Service life of poles in REA- financed electric systems.	: Kulp, J.W.	: FPL Rep. No. 2240. : 1962.
Further data on the extraction of creosote from marine piles.	Baechler, R.H.,	. AWPA Proc. 1961.
Study of groundline treatments applied to five pole species.	Panek, E., Blew, J.O., & Baechler, R.H.	FPL Rep. No. 2227. : 1961.
What can be expected from treated wood in highway construction?		FPL Rep. No. 2235.

<sup>+</sup> Information reviewed and reaffirmed.

Title	: Author	: Publication and date
Extraction of creosote from marine piles of variable age and		: AWPA Proc. 1960.
Inspection of preservative treatment of poles.	: : Baechler, R.H.	: : : : : : : : : : : : : : : : : : :
treatment of poles.	0	: 1700.

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Treated wood foundations for buildings.	: Gjovik, L.R., & : Baechler, R.H.	: Forest Prod. J. : 20(5): 45-48. : May 1970.
Preservative treatments for protecting wood boxes.	: Verrall, A.F., & : Scheffer, T.C.	: U.S. Forest Serv. : Res. Paper FPL 106. : 1969.
Protecting stored logs and pulp-wood in North America.	: Scheffer, T.C	: Material und : Organismen 4 Bd. : 1969 Heft 3.
Field tests on wood dethiaminized for protection against decay.	l: Gjovik, L.R., & : Baechler, R.H.	: Forest Prod. J. : 18(1): 25-27. : Jan. 1968.
Accelerated weathering of red oak treated with various preservatives used to treat crossties.	: Rietz, R.C.	: Forest Prod. J. : 11(12): 567-575. : Dec. 1961.
Measuring the effectiveness of water-repellent preservatives.	: Miniutti, V.P., : Mraz, E.A., & : Black, J.M.	: Forest Prod. J. : 11(10): 453-462. : Oct. 1961.

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#### WOOD PRESERVATION -- (Continued)

American Wood-Preservers' Association Proceedings. Published annually, Washington, D. C. 20006. \$23.

American Wood-Preservers' Association Manual of Recommended Practice. Revised annually. (A looseleaf handbook of specifications and data.)

American Railway Engineering Association Bulletin. Published monthly except in April, May, and August. Chicago, Ill. 60605.

Environmental Quality--The First Annual Report of the Council on Environmental Quality Together with the President's Message to Congress. August 1970.

Hunt, G.M., and Garratt, G.A. Wood preservation, N.Y., McGraw-Hill Book Co., 1967. 433 pp., illus. A general discussion of the various phases of the subject. Third edition.

Official Quality Control Standards, American Wood Preserver's Institute, 1651 Old Meadow Road, McLean, Va. 22101.

San Francisco Bay Marine Piling Committee. Marine borers and the relation to marine construction on the Pacific Coast, being the final report of Committee prepared in cooperation with the National Research Council and the American Wood-Preservers' Association, San Francisco, Calif., Berkeley, Calif., University of California Press, 1927. 357 pp., illus. (Digest in AWPA Proc. 1928, pp. 253-259.)

